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PUBLICATIONS

From Doctoral Thesis research

1. Yunxiong Zeng, Zachary T. Gossage, Dipobrato Sarbapalli, Jingshu Hui and Joaquín Rodríguez-López. "Tracking Passivation and Alkali Ion Flux at Incipient Solid-Electrolyte Interphases on Multi-Layer Graphene with Sub-Micron Electrochemical Imaging" *ACS Nano* **2021**. (*In preparation*)
2. Abhiroop Mishra, Dipobrato Sarbapalli, Md. Sazzad Hossain, Zachary T. Gossage, Alexander Urban and Joaquín Rodríguez-López. "In-Situ, Real-Time Detection of Oxygen Evolution from Battery Cathodes Using Scanning Electrochemical Microscopy" *ACS Energy Lett.* **2021**. (*In preparation*)
3. Dipobrato Sarbapalli, Jingshu Hui, A. Nijamudheen, Abhiroop Mishra, Adolfo Romo Barros, Jose Luis Mendoza-Cortes and Joaquín Rodríguez-López. "Exploring Na-ion charge storage in fluorinated few layer graphene" *J. Phy. Chem. C.* **2021**. (*In preparation*)
4. Dipobrato Sarbapalli, Abhiroop Mishra and Joaquín Rodríguez-López. "Pt/Polypyrrole Quasi-References Revisited: Robustness and Application in Electrochemical Energy Storage Research" *Anal. Chem.* **2021**. (*Submitted*)
5. Zachary T. Gossage, Kendrich Hatfield, Yuanya Zhao, Raghuram Gaddam, Dipobrato Sarbapalli, Abhiroop Mishra and Joaquín Rodríguez-López. *Application to Batteries and Fuel Cells* in Scanning Electrochemical Microscopy, Taylor & Francis. (*Submitted*)
6. Dipobrato Sarbapalli, Abhiroop Mishra, Zachary T. Gossage, Kendrich Hatfield, and Joaquín Rodríguez-López. *Scanning Electrochemical Microscopy: A Versatile Tool for Inspecting the Reactivity of Battery Electrodes* in Batteries: Materials Principles and Characterization Methods, IOP Science. (*Submitted*)
7. Abhiroop Mishra, Zachary T. Gossage, Dipobrato Sarbapalli, Yuanya Zhao, and Joaquín Rodríguez-López. *Methods and Instrumentation in Energy Storage* in Encyclopedia of Electrochemistry, Wiley-VCH. (*Submitted*)
8. Jingshu Hui, A. Nijamudheen, Dipobrato Sarbapalli, Chang Xia, Zihan Qu, Jose L. Mendoza-Cortes, and Joaquín Rodríguez-López. "Nernstian Li^+ intercalation into few-layer graphene and its use for the determination of K^+ co-intercalation processes" *Chem. Sci.* **2021**, *12*, 559-568. DOI: 10.1039/D0SC03226C
9. Michael J. Counihan, Dipobrato Sarbapalli, and Joaquín Rodríguez-López. "Picture Your Electrode: A Primer on Scanning Electrochemical Microscopy" *Electrochem. Soc.*

Interface. **2020**, *29*, 30–32. DOI: 10.1149/2.f03203if

10. A. Nijamudheen, Dipobrato Sarbapalli, Jingshu Hui, Joaquín Rodríguez-López, and Jose L. Mendoza-Cortes. "Impact of Surface Modification on the Lithium, Sodium, and Potassium Intercalation Efficiency and Capacity of Few-Layer Graphene Electrodes" *ACS Appl. Mater. Interfaces*. **2020**, *12*, 19393–19401. DOI: 10.1021/acsami 9b23105
11. Zachary T. Gossage, Jingshu Hui, Dipobrato Sarbapalli, and Joaquín Rodríguez-López. "Coordinated mapping of Li^+ flux and electron transfer reactivity during solid-electrolyte interphase formation at a graphene electrode" *Analyst*. **2020**, *145*, 2631-2638. DOI: 10.1039/C9AN02637A
12. Tylan S. Watkins*****, Dipobrato Sarbapalli*****, Michael J. Counihan*****, Andrew S. Danis, Jingjing Zhang, Lu Zhang, Kevin R. Zavadil, and Joaquín Rodríguez-López. "A combined SECM and electrochemical AFM approach to probe interfacial processes affecting molecular reactivity at redox flow battery electrodes" *J. Mater. Chem. A* **2020**, *8*, 15734–15745. DOI: 10.1039/D0TA00836B
13. Jingshu Hui, Zachary T. Gossage, Dipobrato Sarbapalli, Kenneth Hernández-Burgos, and Joaquín Rodríguez-López. "Advanced Electrochemical Analysis for Energy Storage Interfaces" *Anal. Chem.* **2019**, *91*, 60–83. DOI: 10.1021/acs.analchem.8b05115

*Denotes equal contribution

From Masters Thesis research

14. Dipobrato Sarbapalli, Xu Chen, Leslie Struble and Paramita Mondal. "Salicylic acid extraction of sodium aluminosilicates" *J. Amer. Cer. Soc.* **2021** (*In preparation*)

From Undergraduate research

15. Dipobrato Sarbapalli, Yash Dhabalia, Kaustav Sarkar and Bishwajit Bhattacharjee. "Application of SAP and PEG as curing agents for ordinary cement-based systems: impact on the early age properties of paste and mortar with water-to-cement ratio of 0.4 and above" *Eur. J. Environ. Civ. Eng.* 2017, 21, 1237-1252. DOI: 10.1080/19648189.2016.1160843

CONFERENCE PAPERS

1. Dipobrato Sarbapalli and Paramita Mondal, "Effect of TiO_2 and ZnO nanopowders on metakaolin-sodium hydroxide geopolymers" *Proceedings of the 41st International Conference on Advanced Ceramics and Composites*, **2018**, *38*, 251-262

POSTERS

1. Dipobrato Sarbapalli, Abhiroop Mishra and Joaquín Rodríguez-López. "Understanding interactions of redox-active organic molecules with carbon electrodes" *Turkey Run Analytical Chemistry Conference*, **2021**
2. Dipobrato Sarbapalli, Jingshu Hui, A. Nijamudheen, Jose L. Mendoza-Cortes, and Joaquín Rodríguez-López. "Few-layer graphene as a versatile analytical platform for exploring reversible Na^+ charge storage aided by fluorine surface modifiers" Society of Electroanalytical Chemistry Poster Session, *PITTCON*, **2021**
3. Dipobrato Sarbapalli, Michael Counihan, Andrew Danis and Joaquín Rodríguez-López. "Application of electrochemical microscopy probe interfacial processes at redox flow battery electrodes" Society of Electroanalytical Chemistry Poster Session, *PITTCON*, **2020** (Best Poster Award)
4. Dipobrato Sarbapalli, Michael Counihan, Andrew Danis and Joaquín Rodríguez-López. "Understanding interactions of redox-active organic molecules with carbon electrodes" *Turkey Run Analytical Chemistry Conference*, **2019**

Google Scholar: https://bit.ly/3c9oQqC

Scopus: https://cutt.ly/5bQJqvm

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